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APPLICATION NO.	FII	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/049,808	0	2/19/2002	Kenichi Shiraishi	740670-272	6189
31780	7590	12/02/2004		EXAM	INER
ERIC ROE	INSON		BOCURE, TESFALDET		
21010 SOU'	THBANK S	ST.	ART UNIT	PAPER NUMBER	
POTOMAC	FALLS, V	/A 20165		2631	

DATE MAILED: 12/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/049,808	SHIRAISHI ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Tesfaldet Bocure	2631			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠	Responsive to communication(s) filed on 191	February 2002.				
2a)	This action is <b>FINAL</b> . 2b)⊠ Thi	is action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
4) ☐ Claim(s) 1-13 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) ☐ Claim(s) 1-5 and 7-13 is/are allowed.  6) ☐ Claim(s) 6 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers	-				
10)⊠	The specification is objected to by the Examin The drawing(s) filed on 19 February 2002 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examination.	re: a) accepted or b) objected or b) objected or a drawing(s) be held in abeyance. See ction is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119		•			
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachmen		<b></b>	(DTO 440)			
2)  Notic 3) Infor	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da  5) Notice of Informal P  6) Other:				

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#### **DETAILED ACTION**

### **Priority**

1. Acknowledgement of the priority papers under 371 has been differed because the papers in the filed do not match to the current application. The papers in the file belong to JP/00/06383 instead of JP/00/06838.

#### Information Disclosure Statement

2. The front file shows as if the office received an Information Disclosure Statement (IDS) on 2/19/02. However, such an IDS is not in the file and Examiner is kindly requesting Applicant to provide such an IDS.

# **Drawings**

3. Figures 15-17 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the examiner does not accept the changes, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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# Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

1. Claim 6 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is not clear from the claim whether the claimed subject matter in claim 6 is a method or an apparatus claim.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claim 6 is rejected under 35 U.S.C. 102(b) as being anticipated by Applicant's Stated Own Prior Art fig. 15.

Applicant's Stated Own Prior Art (ASOPA hereinafter) teaches a receiver, fig. 15, for receiving an I and Q signals within the received IF frequency to be converted to a baseband signal (see output from element 71) having frequency error comprising: a frequency error calculating device (77) for calculating the frequency error of the frame sync. Signal in the received base band signal; and AFC 79, loop filter 78 and phase

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error detector 76 for generating a frequency and phase error to correct the phase and

frequency of the carrier frequency at oscillator 70 as in claim 6.

# Allowable Subject Matter

- 4. Claims 1-5 and 7-13 are allowed.
- 5. The following is a statement of reasons for the indication of allowable subject matter: The claimed subject matter in claims 1-5 and 7-13 are allowable because the prior arts of record fail to teach or fairly suggest the claimed "a synchronization acquiring circuit for receiving a baseband signal transferred as an intermediate frequency signal by down converting intermediate frequency signal obtained by downconverting a received radio wave and for acquiring a radio frequency channel comprising a plurality of pattern detection means (5-1 to 5-3 in fig. 3 and 54-1 to 54—5 in fig. 8), claimed in claims 1 and 7, disposed in parallel each (claimed first, second and third pattern detection means in claims 2 and 13, and first through fifth pattern detection circuit means in claim 8) performing an operation of receiving the baseband signal transferred by the intermediate frequency signal of a different frequency range (the claimed base band signal having a predetermined frequency range, higher frequency range and lower frequency range in claims 2,8 and 13) and detecting predetermined frame synchronization pattern and in combination with the carrier recovery means (50 and 56-59) as in claims 1,2,7,8 and 13."

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#### Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US patent number 5,953,649 issued to Junell discloses a receiver having frame sync detecting circuit for in recovering the carrier.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tesfaldet Bocure whose telephone number is (703) 305-4735. The examiner can normally be reached on Mon-Thur (7:30a-5:00p) & Mon.-Fri (7:30a-5:00p).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad H Ghayour can be reached on (703) 306-3034. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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T.Bocure

Primary Examiner